



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80A3 BYPASS RATIO: 5.0
 UNIQUE ID NUMBER: 1GE013 PRESSURE RATIO (π_{00}): 30.1
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 217.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	11.6	41.7	64.0	15.6
AS % OF ORIGINAL LIMIT	59.2	35.3	63.9	81.6
AS % OF CAEP/2 LIMIT (NO _x)			79.8	
AS % OF CAEP/4 LIMIT (NO _x)			95.2	
AS % OF CAEP/6 LIMIT (NO _x)			108.2	
AS % OF CAEP/8 LIMIT (NO _x)			127.2	

DATA STATUS

x PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.254	0.30	1.00	29.60	12.0
CLIMB OUT	85	2.2	1.885	0.37	1.10	26.60	10.0
APPROACH	30	4.0	0.641	0.45	2.80	10.80	2.0
IDLE	7	26.0	0.150	6.28	28.20	3.40	2.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			731	1659	7398	11878	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	1
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				7.5	34.0	55.2	12.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.0	0.4	2.9	
RANGE (D _p /F ₀₀ in g/kN, or SN)				6.87-8.64	33.6-34.3	52.1-57.7	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.1-99.8
TEMPERATURE (K)	275-277
ABS HUMIDITY (kg/kg)	0.002

FUEL

SPEC	Jet A
H/C	1.93
AROM (%)	17.1

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: Production Engine Test
 TEST LOCATION: Production Test Cells M35
 TEST DATES: 11/11/1983-12/11/1983

REMARKS

1. Ref GE Report no R83AEB635.
2. Engine S/N 580214.
3. Smoke from Engine S/N 580005, report R81AEG513.
4. With approval of US FAA, idle power data were only acquired at the engine design setting of 3.69%.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)